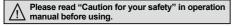
# 7 inch wide screen, TFT Color LCD type

# **Graphic touch panel GP-S070**

#### Features

- Adopts 7 inch wide TFT LCD for realizing True Color with 16,777,216 colors
- Analog touch method
- : Free tag arrangement than matrix touch method
- Data logger function
- : Supports data gathering and backup of controller
- Supports variable image library
- Enables to monitor multi station and multi channel at the same time
- Supports several interface
- : Supports USB Host/Device to high speed download and manage files
- : Easy to connect various external devices with RS232C 2 ports and RS232C/RS422 multi-communication port
- Supports several fonts: Supports window true type and several bitmap fonts (selectable)
- Device monitoring function
- : Enables to monitor/control variable of connected control through communication port
- Easy S/W upgrade at website
  - (1) GP firmware file
  - (2) GP Editor (drawing program)
  - (3) Additional protocol
  - (4) Language and font, etc
- Connects printer/barcode reader: Enables to print out alarm history, to read barcode







#### Manual

Visit our webwite(www.autonics.com) to download 'GP Editor user manual' or 'GP, LP user manual for communication', 'GP-S070 user manual'.

#### GP Editor user manual

It describes how to write screen data, and is about related usage of GP-S070 HMI function.

#### • GP. LP user manual for communication

It describes connection for external devices such as PLC.

#### • GP-S070 user manual

It describes general information on the installation and usage of GP-S070 and system contents.

# Ordering information

Model	Item	Series	Monitor size	Display unit	Color	Power supply	Interface
GP-S070-T9D6	Graphic panel	Carrier	7 inch	TFT Color LCD	16,777,216 color	24VDC	RS232C, RS422, USB HOST, USB DEVICE, Ethernet
GP-S070-T9D7		S series	/ IIICII				RS232C (2EA), USB HOST USB DEVICE. Ethernet

G- 97-5178 TM4 Series RS485 C

7 inch TFT Color LCD

sensor

(C) Door/Area

(D) Proximity

(E) Pressure

(I) SSR/ Power controller

(K) Timer

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(P) Switching mode powe supply

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# ■ Specifications

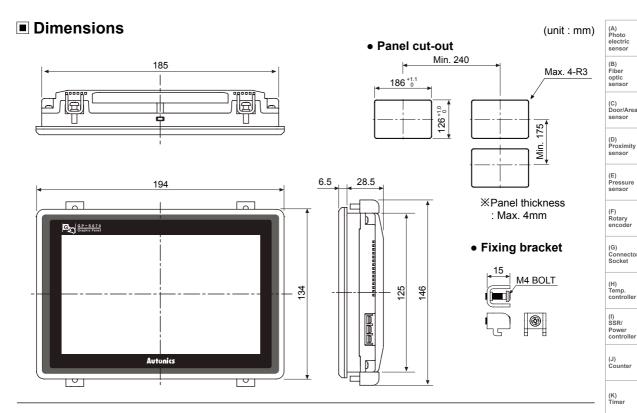
Model		GP-S070-T9D6	GP-S070-T9D7				
Power supply		24VDC					
Allowable voltage range		90 to 110% of power supply					
		Max. 7.2W					
Se	LCD type	7 inch TFT Color LCD					
l ar	Resolution	800×480 dots					
performance	Display area	152.4mm×94.44mm					
erf	Color	16,777,216 color					
S	LCD view angle	Within each 50°/60°/65°/65° of top/bottom/left/right					
Display p	Backlight	White LED					
Dis	Brightness	Adjustable by software					
و ق	Language*1	English, Korean					
Graphic drawing performance	Text	Vector font					
Pic	Graphic drawing memory	16MB					
per	Number of user screen	500 pages					
Ō	Touch switch	Analog touch					
Seria	I interface	Asynchronous method: Each port of RS232C, RS422					
		Each port of RS232C, RS422	Two ports of RS232C				
USB	interface	Each of USB HOST, USB Device(Version 1.1)					
Ether	net interface	IEEE802.3(U), 10/100Base-T					
	time controller	RTC embedded					
	ry life cycle	Approx. 3 years at 25°C					
	ated resistance	Min. 100MΩ(at 500VDC megger)					
Grou	•	3rd grounding(max. 100Ω)					
	resistance	± 0.5kV the square wave noise(pulse width: 1μs) by the noise simulator					
Withs	tanding voltage	500VAC 50/60Hz for a minute					
Vibra	Mechnical	0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1 hour					
VIDIG	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 min.					
Shoc	Mechanical	300m/s²(approx. 30G) in each of X,Y,Z directions for 3 times					
Onoc	Malfunction	100m/s²(approx. 10G) in each of X,Y,Z directions for 3 times					
		0 to 50°C, storage: -20 to 60°C					
-ment Ambient humidity 35 to 85% RH, storage: 35 to 85% RH							
Protection		IP65F for front panel					
Accessory		Fixing bracket: 4EA, Battery(included)					
Approval							
Unit v	veight	Approx. 520g					
<u></u> *1: L	anguage can be customiz	zed.					

_		<u> </u>			
Fig	ure display	Line, rectangle, circle, text, bitmap			
	Numeral display	Displays the designated device as numerical value.(decimal, hexadecimal, octal, binary, real number)			
	ASCII display	Displays the designated device value as ASCII character.			
	Time display	Displays current time or date.			
	Alarm history	Registers alarm history.			
	Alarm list	Displays generated (not backed up) alarm.			
	Comment display	Displays the designated comment as device status or value.			
	Lamp	Displays lamp as device status.			
gs	Part display	Displays the designated parts as device status and value.			
ĪΦ	Line graph	Displays several device values with a graph of broken line.			
	Trend graph	Displays change of device value for time with a graph of broken line.			
	Bar graph	Displays a device value with a bar graph.			
	Statistic graph	Displays a ratio of several device values with pie graph.			
	Panel meter	Displays a device value as panel meter.			
	Touch key	Screen is switched, word/bit device values are set when it touched.			
	Numeral input	Configures user input value in device.			
	ASCII input	Configures user input ASCII code value in device.			
Sy	stem information function	Monitors/Controls GP operation from PLC.			
Re	cipe function	Reads/Writes several PLC device collectively.			
Security function		Only acceptable user can observe/operate important data.			
Barcode read function		Connects barcode reader, read barcode.			
Floating alarm function		Warning message is floated when alarm is generated.			
Tin	ne operation	Specific bit device is ON/OFF for designated day and time.			
Overlap window		Available to form dynamically overlapping another base screen on the base one.			
Observe status function Changes PLC device status/value of PLC when trigger is generated.					
	bserve status function Changes FLO device status/value of FLO when trigger is generated.				

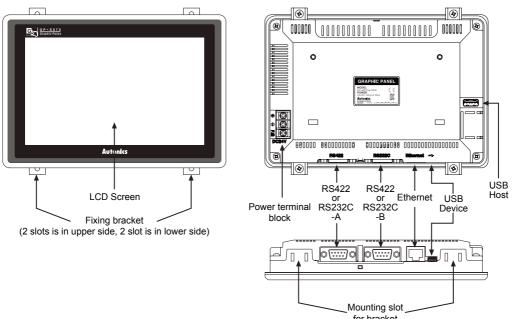
R-18 **Autonics** 

<sup>\*1:</sup> Language can be customized.\*Environment resistance is rated at no freezing or condensation.Functional description

# **Graphic Panel**



# Part description



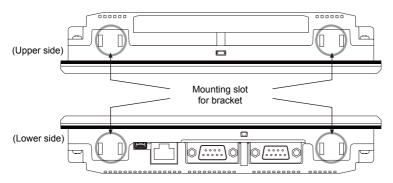
- Ethernet Port: For connecting LAN cable and hub, use direct cable, and for connecting PC directly, use cross cable.
- USB Device: It is used to upload and download project (it is required to install USB driver on PC), and when connect to PC, it can be used as a USB memory (PC recognizes it as a removable disk).
- USB Host: It is used to manage data and upgrade firmware.
- RS232C, RS422 ports: For more information, refer to R-32 page and 'ESerial interface' of GP/LP common features.

**Autonics** 

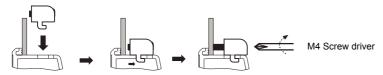
RS422 RS422 Pluse moter (N) Display unit (C) Sensor controller (P) Switching mode power supply (C) Sensor controller (R) Stepper motor& Or Ethernet USB Host Field network device (T) Software (U) Other (T) Software (U) Other (T) Serial interface' of GP/LP common features.

# Installation

- 1. Set GP-S070 in panel.
- 2. Set fixing brackets in 4 slots(2 slots is in upper side, 2 slots is in lower side).



3. Tighten fixing bracket with M4 Screw driver and tightening torque is 0.3 to 0.5N·m.



# Sold separately

Transmission cables connectable into external devices such as PLC are sold separately. (refer to the R-32 page for "GP/LP communication cable".)

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# **GP/LP Common Features**

# Serial interface

- All devices connectable into LP-S044 including PC, PLC, serial printer, barcode reader and dedicated connectors can be connected into both RS232C and RS422 ports.
- Device must be set for the port in system setting for LP-S044, LP-S070. For details, refer to "GP user manual".
- Use the dedicated communication cable for the each connected device.
   (Refer to the "GP/LP communication cable" of R-32 page)
- For the method of wiring external devices of PLC, refer to "GP/LP communication manual".

Port	NO.	Pin(GP-S044, GP-S057, GP-S070)	Pin(LP-S044, LP-S070)	
RS232C	1	Non-used	Non-used	
5	2	RXD	RXD	
5 9	3	TXD	TXD	
4   •   8	4	DTR	DTR	
3   •   7	5	SG	SG	
2 6	6	DSR	DSR	
1	7	Non-used	Non-used	
D-Sub 9Pin	8	Non-used	Non-used	
Male	9	Non-used	Non-used	
RS422	1	TXD+	TXD+	
5 (0)	2	RXD+	RXD+	
4 0 0 6	3	Non-used	Non-used	
1 017	4	Non-used	Non-used	
	5	SG	SG	
2 0 0 9	6	TXD-	TXD-	
1 (0)	7	RXD-	RXD-	
D-Sub 9Pin	8	Non-used	Non-used	
Female	9	Non-used	Non-used	

# Power wiring

- For power supply, use the wire of which cross section is at least 0.75mm² and use the wire of which cross section is at least 1.25mm² for grounding.
- Use crimp-on type terminal with at least 3mm of internal diameter and less than 6mm of external diameter.
- Do not apply power before power line connection.
- Check power polarity.
- Tighten the terminal screw with 0.5 to 0.8N·m torque.
- Ground resistance should be less than  $100\Omega$  and ground it separately.

# + - F.G.

# Battery replacement

Please contact out distributor to replace battery.

It may cause an explosion or a fire when improper battery is used.

# Caution for using

- Use communication cable after checking whether there is break, short.
- Please install power switch or circuit-breaker in order to cut power supply off.
- Separate this unit from high voltage line, power line to avoid inductive noise.
- Do not use this product at below places.
- Place where there is severe vibration or impact
- Place where dust exists, or corrosion causing environments.
- Place where strong magnetic field or electric noise are generated
- Place where is temperature/humidity is beyond the specification
- Place where strong alkalis or vibration or impact
- Place where there are direct ray of the sun
- Installation environment
- · It shall be used indoor.
- Altitude Max. 2,000m
- Pollution Degree 2
- · Installation Category II

(A) Photo electric sensor

(B) Fiber optic sensor

> (C) Door/Area sensor

(D) Proximity sensor

Pressure sensor

> Rotary encoder

Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

> (J) Counter

> > K) Fimer

Panel meter

(M) Tacho/ Speed/ Pulse meter

> (N) Display unit

(P) Switching

mode power supply

Stepper motor& Driver&Controlle



Field network device

(T) Software

(U) Other

# GP(Graphic Panel)?



Graphic panel is HMI(Human Machine Interface) device that parameter monitors or changes via graphic interface by communication with PLC, temperature controller or other control units.

Graphic interface of GP is very effective to indicate value or status of parameter with visual interface that enables the communication between controller and user.

GP is able to monitor parameters virtually with LCD screen, switch screen by touching screen, set or change parameters. GP connecting with controller via serial communication method translates data and displays various control parameters with graphic.

For example, in case of the target of parameters is the temperate, the numerical value of temperature is shown with a tag and the change in temperature for time can be graphed on the screen.

# ■ Preparation for using GP





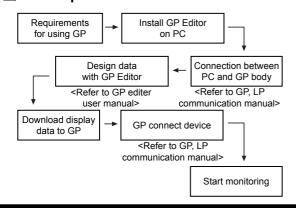
The numerical value of temperature

Graph of temperature

- 1) GP body
- 2) PC
- 3) GP Editor
  - Software for drawing GP screen
- 4) Manual
  - GP editor user manual
  - LP, GP Communication manual
  - GP-S044/S057, GP-S070 user manual
- 5) Communication cable
  - Communication cable for PC connection
  - Communication cable for controller connection
- 6) Access devices

(PLC or controller built in communication ports)

# **■** Basic operation flow



# Advantages of using GP

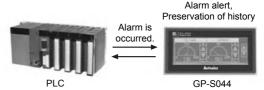
# © Complicated environment of operation and control

It graphicalizes mechanical control components such as button, switch and lamps so that saves cost and space and improves the preservation of devices.



# Setting and change of production process

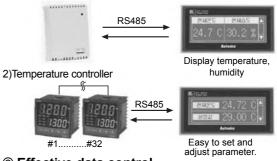
It graphicalizes mechanical control components such as button, switch and lamps so that saves cost and space and improves the preservation of devices.



# O Convenient setting by user

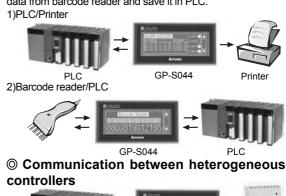
It sets complicated or non-displaying controller (Thermometer/hygrometer, temperature controller etc).

1)Temperature/Humidity without display device



#### © Effective data control

It prints alarm history of controller using printer. It reads the data from barcode reader and save it in PLC.

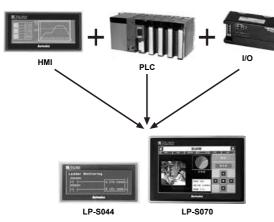






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# ■ LP(Logic Panel)?



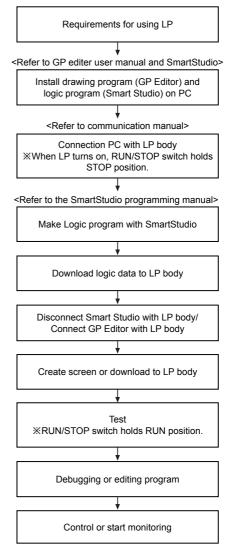
Logic panel is created for integrated panel in most demanding industrial environments that have been consisted of HMI, PLC and I/O. The LP through integration realizes cost down, wire reduction, space saving and enhanced user friendliness. The logic panel perfectly supports serial communication and editing display with GP Editor and about 250 commands of SmartStudio invented on our own to edit PLC ladder/mnemonic, allowing accelerating product development and designing. And also this device can control and monitor various output devices (sensors, button, etc) and output devices (solenoid, lamp, motor, etc) individually.

# Preparations for using LP

- 1) LP body
- 2) PC
- 3) Software
- ① GP Editor
- Software for drawing LP screen
- ② SmartStudio
- Software for logic program
- 4) Manual
  - GP Editor user manual
  - GP,LP Communication manual
  - SmartStudio user manual
  - SmartStudio programming manual
  - LP-S044, LP-S070 user manual
  - LP series command manual
- 5) Communication cable
- Communication cable for PC connection
- Communication cable for controller connection
- 6) Access device

(PLC or controller built in communication ports)

# Basic operation flow



\*\*Refer to the manual for details on website(www.autonics.com) resources.

(A) Photo electric sensor

(B) Fiber optic sensor

> (C) Door/Area

(D) Proximity sensor

(E) Pressure sensor

> (F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

> (K) Timer

Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

> O) ensor ontroller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controller



(S) Field network device

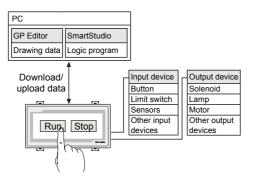
(T) Production stoppage models & replacement

(U) Other

# System configurations

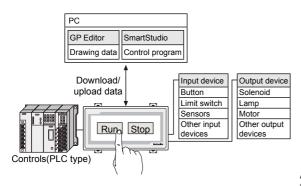
# Stand alone(LP Series)

Stand alone system in LP series controls a variety of I/I O without adding other devices and monitors and control operation element through direct touch of screen. (device, parameter, etc.)



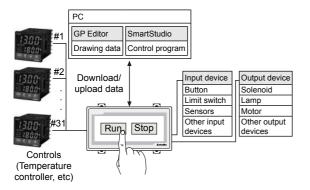
#### 

The device function makes it possible to monitor the operation data (Device, parameter, etc.)



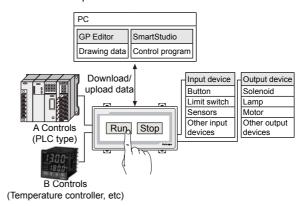
#### 

The device function makes it possible to monitor the operation element (device, parameter, etc.) by connecting in a 1:N configuration (Up to 32 units)



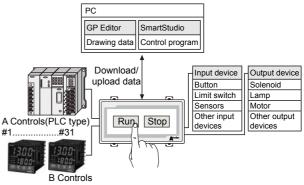
# 

The device function makes it possible to monitor, control and the operation element (device, parameter, etc.) between different devices using two separate communication port.



#### **◎ 1:1 N configuration (GP/LP Series)**

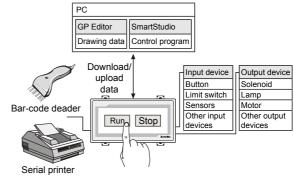
The device function makes it possible to monitor, control and the operation element (device, parameter, etc.) between different devices using two separate communication port.. In case of RS-422 port, 1:N is available only. (Up to 31 units).



# (Temperature controller, etc)

# Bar-code, printer connection (GP/LP Series)

It can read bar-code and print a history using printer.



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# Software

# **◎** GP Editor(Drawing program)



- This drawing software is for GP/LP series.
- GP Editor is the software that allows creating a screen and designs a tag layout, and then transfer the data from screen to GP/LP. After download, GP/LP starts monitoring according to your screen data.

# 



- Logic software is for LP series.
- Support multi-project
- : It is possible to open maximum 5 projects at a same time.
- Easy program editing
- : Block of cell units can be edited. Split-screen editing is available.

It provides various editing screens such as variable screen, describe screen, variable /describe screen, etc,...

- Various monitor functions
- : It provides monitor functions such as variable monitor, device monitor and system monitor, time chart.
- Comfortable user interface
- : It ensures easy operation with Microsoft windows layout.
- Wide range of Message windows
- : It supports various message windows to edit and check program.
- Real time convert ladder to mnemonic
- : Ladder and mnemonic can be written and read to edit simultaneously.

Visit our website (www.autonics.com) and download software or manuals.

< System requirements >

Item	Minimum requirements				
Cuetom	IBM PC compatible computer with Intel Pentium				
System	III or above				
Operating system	Microsoft Windows 98/NT/XP/Vista/7				
Memory	256MB or more				
Hard disk	More than 1GB of free hard disk space				
VGA	1024×768 or higher resolution display				
Others	RS-232 serial port(9-pin), USB port				

#### Manual

#### O GP/LP common manual

GP Editor user manual

This section describes how to make screen data and use HMI function with GP Editor.

Communication manual

For more information of serial connection with external devices such as PLC, refer to manual before connecting.

 GP-S044/S057, GP-S070 user manual The manual describes installation and system organization and menus.

#### © LP manual

SmartStudio manual
 This section describes how to install and use
 SmartStudio.

• Programming manual
The manual has command and instruction.

 LP-S044, LP-S070 user manual
 The manual describes installation and system organization and menus.

 LP Series instruction manual
 The manual has LP installation, system configuration and instruction.

# Precaution for using

- Do not press touch panel with hard and sharp object.
- Please store the device in the recommended temperature range, or LCD panel can be damaged.
- Please check pin number shown in "Communication manual" when connect communication port
- Do not block the ventilating opening of this product.
- Do not use or store it in a place with direct ray of light or dust.
- Do not use or store it in a place with shock or vibration.
- The ground wire of GP/LP should be grounded separately.
   The ground resistance should be max. 100Ω, please use the wire of min. 1.25mm² dimension.
- Please check the pin number and connect to GP/LP communication port.
- Please tighten bolt on terminal block with specified tightening torque
- When liquid crystal from the broken LCD is smeared on your skin, wash it for 15 minutes. If it is gotten in your eye, wash it for 15 minutes and contact a medical specialist for more information
- Do not inflow dust or wire dregs into the unit.
- For cleaning, do not use water or an oil-based detergent, use dry towels.
- It should be done away regarded as an industrial waste.

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(E) Pressure

(D) Proximity

(F) Rotary

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

Counter

Timer

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

> O) Sensor controller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controller



Field network device

(T) Production stoppage models & replacement

(U) Other

# **■** Connectable device with GP/LP

Series	Connectable device	Connection type	GP-S057	GP/LP- S044	GP/LP- S070
	MK-10S1	CPU direct connection loader	0	0	0
	MK-80S	CPU direct connection loader	0	0	0
O Master I/	MK-120S	CPU direct connection loader	0	0	0
_S Master-K	MK-200S	CPU direct connection loader	0	0	0
	MK-300S	CPU direct connection loader	0	0	0
	MK-1000S	CPU direct connection loader	0	0	0
	GM4	CPU direct connection loader	0	0	0
LS Glofa	GM6	CPU direct connection loader	0	0	0
	GM7U	CPU direct connection loader	0	0	0
	MK-80S	Cnet	0	0	0
LS CNET	MK-120S	Cnet	0	0	0
(Cnet integrated CPU)	MK-200S	Cnet	0	0	0
	MK-80S	Cnet	0	0	0
	MK-120S	Cnet	0	0	0
LS CNET	MK-200S	Cnet	0	0	0
(For Cnet unit)	MK-300S	Cnet	0	0	0
	MK-1000S	Cnet	0	0	0
_S XGT(For Cnet unit)	XGK- PUS	Cnet	0	0	0
	XBM	Cnet	0	0	0
LS XGB (Cnet integrated CPU)	XBC	+	+	+	1
· · · · · · · · · · · · · · · · · · ·		Cnet	0	0	0
LS XGB	XBM	Cnet	0	0	0
(For Cnet unit)	XBC	Cnet	0	0	0
OEMAX	N70	Cnet	0	0	0
(SAMSUNG)	N70Plus	Cnet	0	0	0
OEMAX FARA	NX7	CPU direct connection loader	0	0	0
<u> </u>	NX70	CPU direct connection loader	0	0	0
	FX1S	CPU direct connection loader	0	0	0
	FX1N	CPU direct connection loader	0	0	0
MITSUBISHI FX	FX2N	CPU direct connection loader	0	0	0
	FX2NC	CPU direct connection loader	0	0	0
	FX3U	CPU direct connection loader	0	0	0
	Q00J	Cnet	0	0	0
	Q00	Cnet	0	0	0
	Q01	Cnet	0	0	0
MITSUBISHI Q	Q02	Cnet	0	0	0
(For Cnet unit)	Q02H	Cnet	0	0	0
(* ** *********************************	Q06H	Cnet	0	0	0
	Q12H	Cnet	0	0	0
	Q25H	Cnet	0	0	0
			-	+	-
	FP0-C10	CPU direct connection loader	0	0	0
	FP0-C14	CPU direct connection loader	0	0	0
	FP0-C16	CPU direct connection loader	0	0	0
	FP0-C32	CPU direct connection loader	0	0	0
	FPG- C24R2	CPU direct connection loader	0	0	0
	FPG- C32T	CPU direct connection loader	0	0	0
NAIS FP	FPG- C32T2	CPU direct connection loader	0	0	0
	FP0R-C10	CPU direct connection loader	0	0	0
	FP0R-C14	CPU direct connection loader	0	0	0
	FP0R-C1	CPU direct connection loader	0	0	0
	FP0R-C32	CPU direct connection loader	0	0	0
	FP0R-T32	CPU direct connection loader	0	0	0
	FP0R-F32	CPU direct connection loader	0	0	0
	CPU221	CPU direct connection loader	0	0	0
	CPU222	CPU direct connection loader	0	0	0
SIEMENS	CPU224	CPU direct connection loader	1	+	1
SIMATIC		+	0	0	0
S7-200	CPU224XP	CPU direct connection loader	0	0	0
	CPU224XPsi	CPU direct connection loader	0	0	0
	CPU226	CPU direct connection loader	0	0	0

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# ■ Connectable device with GP/LP

Series	Connectable device	Connection type	GP-S057	GP/LP- S044	GP/LP- S070
	CPU312	CPU direct connection loader	0	0	0
	CPU312C	CPU direct connection loader	0	0	0
	CPU313C	CPU direct connection loader	0	0	0
SIEMENS	CPU313C-2	CPU direct connection loader	0	0	0
SIMATIC	CPU314	CPU direct connection loader	0	0	0
S7-300	CPU314C-2	CPU direct connection loader	0	0	0
	CPU315-2	CPU direct connection loader	0	0	0
	CPU317-2	CPU direct connection loader	0	0	0
	CPU319-3	CPU direct connection loader	0	0	0
	MicroLogicx 1000	CPU direct connection loader	0	0	0
Allen-Bradley	MicroLogicx 1200	CPU direct connection loader	0	0	0
	MicroLogicx 1500	CPU direct connection loader	0	0	0
OMRON SYSMAC C	CPM 1A	CPU direct connection loader	0	0	0
	E5AN	Modbus	0	0	0
OMBON	E5AR	Modbus	0	0	0
OMRON	E5CN	Modbus	0	0	0
Temperature controller	E5EN	Modbus	0	0	0
	E5ER	Modbus	0	0	0
		Private communication	0	0	0
	MT Series	Modbus	0	0	×
		Modbus(TYPE A)	0	0	0
	MP Series	Private communication	0	0	0
	TUD Carias	Modbus	0	0	×
	THD Series	Modbus(TYPE A)	0	0	0
	TZ Series	Private communication	0	0	0
	TK Series	Modbus	0	0	×
AUTONICS	TK Selles	Modbus(TYPE A)	0	0	0
	TM Series	Modbus	0	0	×
	TW Selles	Modbus(TYPE A)	0	0	0
	CT Series	Modbus	0	0	×
	OT Selles	Modbus(TYPE A)	0	0	0
	DS/DA Series	Modbus(TYPE A)	0	0	0
	ARM Series	Modbus(TYPE A)	0	0	0
	LP-S044,	CPU	0	0	0
	LP-S070	0.0	0	0	0
	DPU Series	Modbus	0	0	×
KONICS	Di O Genes	Modbus(TYPE A)	0	0	0
KONIOO	KDNEO	Modbus	0	0	×
	KRN50	Modbus(TYPE A)	0	0	0
DELTA	DTB Series	Modbus	0	0	×
DLLIA	DID SEILES	Modbus(TYPE A)	0	0	0
DANFOSS	FC Series	Modbus	×	×	×
DANFUOO	FU SEILES	Modbus(TYPE A)	0	0	0
UNIVERSAL	UNIVERSAL	Modbus(Slave)	0	0	0
MODBUS MASTER	DBUS MASTER MODBUS MASTER Modbus(Master)		0	0	0

%GP/LP connectable device list will keep updated according to the upgrade of GP Editor or additional patch. It is recommended to use the latest version of Editor.

XVisit our website (www.autonics.com) to check update of latest GP Editor and GP/LP firmware and to get more detailed instructions.

\*\*Refer to the user manual to select proper communication cable between GP and controllers. (Sold separately)

(A) Photo electric sensor (B) Fiber

> (C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(G) Connector/

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

> () imer

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controlle

(R) Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement

(U) Other

<sup>\*\*</sup>Applicable GP/LP firmware version is determined by GP Editor version. Whole GP system goes down if non-compatible firmware version is used.